

H. Nanba
U.S. Serial No. 10/069,186
Page 2 of 7

Amendments to the claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

Claim 1 (currently amended): A radio communication apparatus which dynamically seizes a communication state between a plurality of mobile terminals constituting a radio network and which dynamically changes communication paths depending on a communication state between the terminals at the present, ~~characterized by~~ comprising:

means for holding a constituent terminal list formed on the basis of the number of terminals connected to the radio network at the present and identifiers of the terminals;

means for sequentially designating the terminals connected to the radio network;

means for requesting topology map data which is bit field data formed on the basis of a communication state between the terminals and the constituent terminal list ~~and which indicates the communication state between the terminals at the present viewed from the corresponding terminal from the designated terminal;~~

means for receiving the request of the topology map data;

means for deciding whether the request of the topology map data is for its own terminal or not;

means for, when the request of the topology map data is for its own terminal, transmitting the topology map data viewed from its own terminal; and

means for, when the request of the topology map data is not for its own terminal, receiving topology map data transmitted from another terminal from which topology map data is requested to reflect the topology map data on the communication state between the terminals stored in its own terminal.

Claim 2 (currently amended): A radio communication method which dynamically seizes a communication state between a plurality of mobile terminals constituting a radio network and

II. Nanba
U.S. Serial No. 10/069,186
Page 3 of 7

which dynamically changes communication paths depending on a communication state between the terminals at the present, ~~characterized by comprising the steps of:~~

~~the step of holding~~causing each of the terminals to hold a constituent terminal list formed on the basis of the number of terminals connected to the radio network at the present and identifiers of the terminals;

~~the step of causing one of the plurality of terminals that is set in a master mode to sequentially designating~~ designate the terminals in a slave mode connected to the radio network;

~~the step of requesting~~causing the terminal in the master mode to request from the designated terminal in the slave mode topology map data which is bit field data formed on the basis of a communication state between the terminals and the constituent terminal list and which indicates the communication state between the terminals at the present viewed from the corresponding terminal from the designated terminal;

~~the step of receiving~~causing each of the terminals in the slave mode including the designated terminal in the slave mode to receive the request of for the topology map data from the terminal in the master mode transmitted from another terminal to reflect the topology map data on the communication state between the terminals stored in its own terminal;

causing the terminals in the slave mode to transmit the topology map data viewed from its own terminal to the terminal in the master mode when the request of the topology map data is for its own terminal; and

causing each of the terminals in the slave mode to receive the topology map data transmitted from another requested terminal in the slave mode to the terminal in the master mode to reflect a communication state between the terminals stored in its terminal when the request of the topology map data is not for its own terminal.

Claim 3 (currently amended): A radio communication method which dynamically seizes a communication state between a plurality of mobile terminals constituting a radio network and which dynamically changes communication paths depending on a communication state between the terminals at the present, ~~characterized by comprising the steps of:~~

II. Nanba
U.S. Serial No. 10/069,186
Page 4 of 7

~~the step of holding~~causing each of the terminals to hold a constituent terminal list formed on the basis of the number of terminals connected to the radio network at the present and identifiers of the terminals;

sequentially designating the terminals connected to the radio network;

~~the step of receiving a request of~~requesting topology map data which is bit field data formed on the basis of a communication state between the terminals and the constituent terminal list and which indicates the communication state between the terminals at the present viewed from the corresponding terminal from the terminal;

receiving the request of the topology map data;

~~the step of deciding~~whether the request of the topology map data is for its own terminal or not;

~~the step of,~~when the request of the topology map data is for its own terminal, transmitting the topology map data viewed from its own terminal; and

~~the step of,~~when the request of the topology map data is not for its own terminal, receiving topology map data transmitted from another terminal from which topology map data is requested to reflect the topology map data on the communication state between the terminals stored in its own terminal.